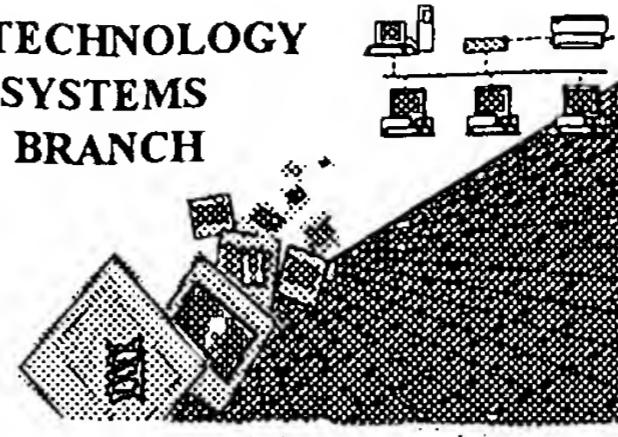


0500

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/087,782
Source: OIPE
Date Processed by STIC: 3/20/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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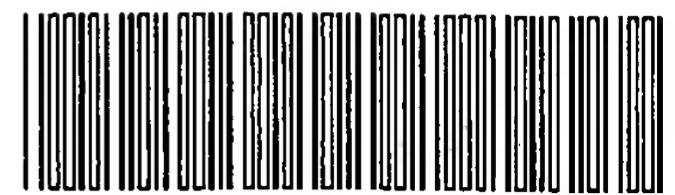
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
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Box Sequentia, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/087,782

DATE: 03/20/2002
TIME: 16:25:09

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\03202002\J087782.raw

pr15
Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: AVENTIS PHARMA SA
4 US GOVERNMENT of the UNITED STATES
6 <120> TITLE OF INVENTION: NUCLEIC ACID OF THE HUMAN ABCC11 GENE, VECTORS
7 CONTAINING SUCH NUCLEIC ACID, AND USES THEREOF
9 <130> FILE REFERENCE: ABCC11 GENE
OK 11 <140> CURRENT APPLICATION NUMBER: US/10/087,782
12 <141> CURRENT FILING DATE: 2002-03-05
14 <150> PRIOR APPLICATION NUMBER: 60/272,757
15 <151> PRIOR FILING DATE: 2001-03-05
17 <160> NUMBER OF SEQ ID NOS: 31
19 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

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114 <213> ORGANISM: Homo sapiens
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119 actaagtgtt ttgggcctga ggcttgagaa gatgtttaaa aagagggatc aagcacaggc 180
120 taaggagagg aaagagcagg cacccaaacc tctgcattgc cccaatatgc tccctgcagg 240
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122 ctttcatat tctctgattc tggaaacga agaattggca ggaactgaaa atgacttagga 360
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449 20 25 30
451 Tyr Lys Thr Tyr Thr Leu Gln Asp Gly Pro Trp Ser Gln Gln Glu Arg
452 35 40 45
454 Asn Pro Glu Ala Pro Gly Arg Ala Ala Val Pro Pro Trp Gly Lys Tyr
455 50 55 60
457 Asp Ala Ala Leu Arg Thr Met Ile Pro Phe Arg Pro Lys Pro Arg Phe
458 65 70 75 80

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466 Asp Glu Asn Thr Ile Pro Pro Leu Ser Val His Asp Ala Ser Asp Lys
467           115         120         125
469 Asn Val Gln Arg Leu His Arg Leu Trp Glu Glu Glu Val Ser Arg Arg
470           130         135         140
472 Gly Ile Glu Lys Ala Ser Val Leu Leu Val Met Leu Arg Phe Gln Arg
473           145         150         155         160
475 Thr Arg Leu Ile Phe Asp Ala Leu Leu Gly Ile Cys Phe Cys Ile Ala
476           165         170         175
478 Ser Val Leu Gly Pro Ile Leu Ile Ile Pro Lys Ile Leu Glu Tyr Ser
479           180         185         190
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482           195         200         205
484 Leu Phe Leu Ser Glu Cys Val Lys Ser Leu Ser Phe Ser Ser Ser Trp
485           210         215         220
487 Ile Ile Asn Gln Arg Thr Ala Ile Arg Phe Arg Ala Ala Val Ser Ser
488           225         230         235         240
490 Phe Ala Phe Glu Lys Leu Ile Gln Phe Lys Ser Val Ile His Ile Thr
491           245         250         255
493 Ser Gly Glu Ala Ile Ser Phe Phe Thr Gly Asp Val Asn Tyr Leu Phe
494           260         265         270
496 Glu Gly Val Cys Tyr Gly Pro Leu Val Leu Ile Thr Cys Ala Ser Leu
497           275         280         285
499 Val Ile Cys Ser Ile Ser Ser Tyr Phe Ile Ile Gly Tyr Thr Ala Phe
500           290         295         300
502 Ile Ala Ile Leu Cys Tyr Leu Leu Val Phe Pro Leu Ala Val Phe Met
503           305         310         315         320
505 Thr Arg Met Ala Val Lys Ala Gln His His Thr Ser Glu Val Ser Asp
506           325         330         335
508 Gln Arg Ile Arg Val Thr Ser Glu Val Leu Thr Cys Ile Lys Leu Ile
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511 Lys Met Tyr Thr Trp Glu Lys Pro Phe Ala Lys Ile Ile Glu Asp Leu
512           355         360         365
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521           405         410         415
523 Ala Phe Ser Met Leu Ala Ser Leu Asn Leu Leu Arg Leu Ser Val Phe
524           420         425         430
526 Phe Val Pro Ile Ala Val Lys Gly Leu Thr Asn Ser Lys Ser Ala Val
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529 Met Arg Phe Lys Lys Phe Phe Leu Gln Glu Ser Pro Val Phe Tyr Val
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532 Gln Thr Leu Gln Asp Pro Ser Lys Ala Leu Val Phe Glu Glu Ala Thr

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Output Set: N:\CRF3\03202002\J087782.raw

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538	Leu Glu Arg Asn Gly His Ala Ser Glu Gly Met Thr Arg Pro Arg Asp			
539	500	505	510	
541	Ala Leu Gly Pro Glu Glu Gly Asn Ser Leu Gly Pro Glu Leu His			
542	515	520	525	
544	Lys Ile Asn Leu Val Val Ser Lys Gly Met Met Leu Gly Val Cys Gly			
545	530	535	540	
547	Asn Thr Gly Ser Gly Lys Ser Ser Leu Leu Ser Ala Ile Leu Glu Glu			
548	545	550	555	560
550	Met His Leu Leu Glu Gly Ser Val Gly Val Gln Gly Ser Leu Ala Tyr			
551	565	570	575	
553	Val Pro Gln Gln Ala Trp Ile Val Ser Gly Asn Ile Arg Glu Asn Ile			
554	580	585	590	
556	Leu Met Gly Gly Ala Tyr Asp Lys Ala Arg Tyr Leu Gln Val Leu His			
557	595	600	605	
559	Cys Cys Ser Leu Asn Arg Asp Leu Glu Leu Leu Pro Phe Gly Asp Met			
560	610	615	620	
562	Thr Glu Ile Gly Glu Arg Gly Leu Asn Leu Ser Gly Gly Gln Lys Gln			
563	625	630	635	640
565	Arg Ile Ser Leu Ala Arg Ala Val Tyr Ser Asp Arg Gln Ile Tyr Leu			
566	645	650	655	
568	Leu Asp Asp Pro Leu Ser Ala Val Asp Ala His Val Gly Lys His Ile			
569	660	665	670	
571	Phe Glu Glu Cys Ile Lys Lys Thr Leu Arg Gly Lys Thr Val Val Leu			
572	675	680	685	
574	Val Thr His Gln Leu Gln Tyr Leu Glu Phe Cys Gly Gln Ile Ile Leu			
575	690	695	700	
577	Leu Glu Asn Gly Lys Ile Cys Glu Asn Gly Thr His Ser Glu Leu Met			
578	705	710	715	720
580	Gln Lys Lys Gly Lys Tyr Ala Gln Leu Ile Gln Lys Met His Lys Glu			
581	725	730	735	
583	Ala Thr Ser Asp Met Leu Gln Asp Thr Ala Lys Ile Ala Glu Lys Pro			
584	740	745	750	
586	Lys Val Glu Ser Gln Ala Leu Ala Thr Ser Leu Glu Glu Ser Leu Asn			
587	755	760	765	
589	Gly Asn Ala Val Pro Glu His Gln Leu Thr Gln Glu Glu Glu Met Glu			
590	770	775	780	
592	Glu Gly Ser Leu Ser Trp Arg Val Tyr His His Tyr Ile Gln Ala Ala			
593	785	790	795	800
595	Gly Gly Tyr Met Val Ser Cys Ile Ile Phe Phe Phe Val Val Leu Ile			
596	805	810	815	
598	Val Phe Leu Thr Ile Phe Ser Phe Trp Trp Leu Ser Tyr Trp Leu Glu			
599	820	825	830	
601	Gln Gly Ser Gly Thr Asn Ser Ser Arg Glu Ser Asn Gly Thr Met Ala			
602	835	840	845	
604	Asp Leu Gly Asn Ile Ala Asp Asn Pro Gln Leu Ser Phe Tyr Gln Leu			
605	850	855	860	

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 608 865 870 875 880
 610 Ser Gly Ile Phe Thr Lys Val Thr Arg Lys Ala Ser Thr Ala Leu His
 611 885 890 895
 613 Asn Lys Leu Phe Asn Lys Val Phe Arg Cys Pro Met Ser Phe Phe Asp
 614 900 905 910
 616 Thr Ile Pro Ile Gly Arg Leu Leu Asn Cys Phe Ala Gly Asp Leu Glu
 617 915 920 925
 619 Gln Leu Asp Gln Leu Leu Pro Ile Phe Ser Glu Gln Phe Leu Val Leu
 620 930 935 940
 622 Ser Leu Met Val Ile Ala Val Leu Leu Ile Val Ser Val Leu Ser Pro
 623 945 950 955 960
 625 Tyr Ile Leu Leu Met Gly Ala Ile Ile Met Val Ile Cys Phe Ile Tyr
 626 965 970 975
 628 Tyr Met Met Phe Lys Lys Ala Ile Gly Val Phe Lys Arg Leu Glu Asn
 629 980 985 990
 631 Tyr Ser Arg Ser Pro Leu Phe Ser His Ile Leu Asn Ser Leu Gln Gly
 632 995 1000 1005
 634 Leu Ser Ser Ile His Val Tyr Gly Lys Thr Glu Asp Phe Ile Ser Gln
 635 1010 1015 1020
 637 Phe Lys Arg Leu Thr Asp Ala Gln Asn Asn Tyr Leu Leu Leu Phe Leu
 638 1025 1030 1035 1040
 640 Ser Ser Thr Arg Trp Met Ala Leu Arg Leu Glu Ile Met Thr Asn Leu
 641 1045 1050 1055
 643 Val Thr Leu Ala Val Ala Leu Phe Val Ala Phe Gly Ile Ser Ser Thr
 644 1060 1065 1070
 646 Pro Tyr Ser Phe Lys Val Met Ala Val Asn Ile Val Leu Gln Leu Ala
 647 1075 1080 1085
 649 Ser Ser Phe Gln Ala Thr Ala Arg Ile Gly Leu Glu Thr Glu Ala Gln
 650 1090 1095 1100
 652 Phe Thr Ala Val Glu Arg Ile Leu Gln Tyr Met Lys Met Cys Val Ser
 653 1105 1110 1115 1120
 655 Glu Ala Pro Leu His Met Glu Gly Thr Ser Cys Pro Gln Gly Trp Pro
 656 1125 1130 1135
 658 Gln His Gly Glu Ile Ile Phe Gln Asp Tyr His Met Lys Tyr Arg Asp
 659 1140 1145 1150
 661 Asn Thr Pro Thr Val Leu His Gly Ile Asn Leu Thr Ile Arg Gly His
 662 1155 1160 1165
 664 Glu Val Val Gly Ile Val Gly Arg Thr Gly Ser Gly Lys Ser Ser Leu
 665 1170 1175 1180
 667 Gly Met Ala Leu Phe Arg Leu Val Glu Pro Met Ala Gly Arg Ile Leu
 668 1185 1190 1195 1200
 670 Ile Asp Gly Val Asp Ile Cys Ser Ile Gly Leu Glu Asp Leu Arg Ser
 671 1205 1210 1215
 673 Lys Leu Ser Val Ile Pro Gln Asp Pro Val Leu Leu Ser Gly Thr Ile
 674 1220 1225 1230
 676 Arg Phe Asn Leu Asp Pro Phe Asp Arg His Thr Asp Gln Gln Ile Trp
 677 1235 1240 1245
 679 Asp Ala Leu Glu Arg Thr Phe Leu Thr Lys Ala Ile Ser Lys Phe Pro

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680 1250 1255 1260
682 Lys Lys Leu His Thr Asp Val Val Glu Asn Gly Gly Asn Phe Ser Val
683 1265 1270 1275 1280
685 Gly Glu Arg Gln Leu Leu Cys Ile Ala Arg Ala Val Leu Arg Asn Ser
686 1285 1290 1295
688 Lys Ile Ile Leu Ile Asp Glu Ala Thr Ala Ser Ile Asp Met Glu Thr
689 1300 1305 1310
691 Asp Thr Leu Ile Gln Arg Thr Ile Arg Glu Ala Phe Gln Gly Cys Thr
692 1315 1320 1325
694 Val Leu Val Ile Ala His Arg Val Thr Thr Val Leu Asn Cys Asp His
695 1330 1335 1340
697 Ile Leu Val Met Gly Asn Gly Lys Val Val Glu Phe Asp Arg Pro Glu
698 1345 1350 1355 1360
700 Val Leu Arg Lys Lys Pro Gly Ser Leu Phe Ala Ala Leu Met Ala Thr
701 1365 1370 1375
703 Ala Thr Ser Ser Leu Arg
704 1380
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/087,782

DATE: 03/20/2002

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Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03202002\J087782.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:113 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:

L:710 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:31